Test Report

Rate of Spread of Prime Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	7
Date	1-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.694	1.655	1.654
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.053	0.014	0.013
6	Rate of spread (d/a)	kg / m^2	1.325	0.35	0.325
7	Average	kg / m^2	0.667		
8	Specified Limit	kg / m^2	Not less than 0.6 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.667 kg / m2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Rate of Spread of Prime Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	6
Date	1-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.695	1.654	1.651
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.054	0.013	0.01
6	Rate of spread (d/a)	kg / m^2	1.350	0.325	0.250
7	Average	kg / m^2	0.642		
8	Specified Limit	kg / m^2	Not less than 0.6 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.642 kg / m2

Note:

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Bangalore

Test Report
Rate of Spread of Prime Coat

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Location	At Site
Material	Bitumen
Sample No	9
Date	1-Apr-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m^2	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m^2	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.695	1.656	1.653
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.054	0.015	0.012
6	Rate of spread (d/a)	kg / m^2	1.350	0.375	0.300
7	Average	kg / m^2	0.675		
8	Specified Limit	kg / m^2	Not less than 0.6 kg / m^2		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.675 kg / m2

Note:

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Bangalore

Test Report
Aggregate Impact Value

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Material	Coarse Aggregate
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Sample No	1
Date	24-Mar-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1308	1307
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	348	347
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	83	82
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	265	265
6	Aggregate Impact Value (w4 / w3)x100	%	23.85	23.63
7	Specified Limit	%	30	

Results: Average Aggregate Impact Value: **23.74** %

Note:

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Test Report
Aggregate Impact Value

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse Aggregate
Sample No	2
Date	24-Mar-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1313	1312
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	353	352
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	81	80
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	272	272
6	Aggregate Impact Value (w4 / w3)x100	%	22.95	22.73
7	Specified Limit	%	30	

Results: Average Aggregate Impact Value: **22.84** %

Note:

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Test Report
Aggregate Impact Value

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse Aggregate
Sample No	3
Date	28-Mar-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1318	1317
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	358	357
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	79	78
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	279	279
6	Aggregate Impact Value (w4 / w3)x100	%	22.07	21.85
7	Specified Limit	%	30	

Results: Average Aggregate Impact Value: **21.96** %

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Test Report
Aggregate Impact Value

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse Aggregate
Sample No	4
Date	28-Mar-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1323	1322
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	363	362
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	77	76
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	286	286
6	Aggregate Impact Value (w4 / w3)x100	%	21.21	20.99
7	Specified Limit	%	30	

Results: Average Aggregate Impact Value: **21.10** %

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Test Report
Aggregate Impact Value

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse Aggregate
Sample No	5
Date	1-Apr-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1328	1327
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	368	367
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	75	74
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	293	293
6	Aggregate Impact Value (w4 / w3)x100	%	20.38	20.16
7	Specified Limit	%	30	

Results: Average Aggregate Impact Value: **20.27** %

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Test Report
Aggregate Particle Shape

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse Aggregates
Sample No	1
Date	24-Mar-2018

I.S. Sieves Size		Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	25	19.5	0	58.5	0
31.5	25	35	16.95	0	-	0
25	20	1559	13.5	239	40.5	257
20	16	1448	10.8	127	32.4	154
16	12.5	953	8.55	148	25.6	155
12.5	10	469	6.75	71	20.2	77
10	6.3	231	4.89	53	14.7	60
	SW	4720	SWf	638	SWe	703

Flakiness Index 13.52 %

Elongation Index 14.89 %

Combined Flakiness and Elongation Indices : 28.41 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for WMM is 35%

Note:

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Asst. Executive Engineer
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Test Report
Aggregate Particle Shape

Project Name	Improvements of roads for layout where the Cauvery and UGD works are in progress in Ward No.05 and Ward No.06 Byatarayanapura Sub Division
Client	Executive Engineer Project Yellahanka Division
Job No	MCTPL/BBMP/Project Division Yelahanka ZONE /P-7/1/2017-2018
Mix Type	Wet Mix Macadam
Contractor	Sri. R. Satheesh
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Course Aggregates
Sample No	2
Date	24-Mar-2018

I.S. Sieves Size		Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	27	19.5	0	58.5	0
31.5	25	37	16.95	0	-	0
25	20	1569	13.5	249	40.5	267
20	16	1430	10.8	109	32.4	136
16	12.5	963	8.55	158	25.6	165
12.5	10	479	6.75	81	20.2	87
10	6.3	241	4.89	63	14.7	70
	SW	4746	SWf	660	SWe	725

Flakiness Index: 13.91 %
Elongation Index: 15.28 %

Combined Flakiness and Elongation Indices : 29.18 %

Comments: Minimum allowable Combined Flakiness and Elongation Indices for WBM is 35%.

Note:

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